

CSc 3320: Systems Programming

Spring 2021

Homework

3: Total points 100

Submission instructions:

1. Create a Google doc for each homework assignment submission.
2. Start your responses from page 2 of the document and copy these instructions on page 1.
3. Fill in your name, campus ID and panther # in the fields provided. If this information is missing in your document TWO POINTS WILL BE DEDUCTED per submission.
4. Keep this page 1 intact on all your submissions. If this *submissions instructions* page is missing in your submission TWO POINTS WILL BE DEDUCTED per submission.
5. Each homework will typically have 2-3 PARTS, where each PART focuses on specific topic(s).
6. Start your responses to each PART on a new page.
7. If you are being asked to write code copy the code into a separate txt file and submit that as well.
8. If you are being asked to test code or run specific commands or scripts, provide the evidence of your outputs through a screenshot and copy the same into the document.
9. Upon completion, download a .PDF version of the document and submit the same.

Full Name: Maharshi Patel

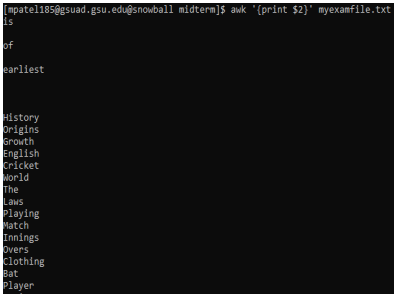
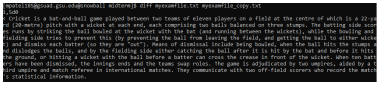


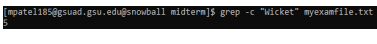
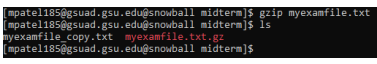
Campus ID: mpatel185

Panther #: 002466568

10 pts for the neatness factor of your presentation.

PART 1: 30pts

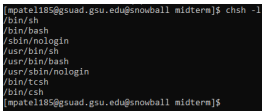
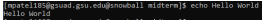
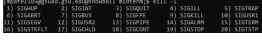
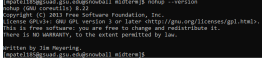
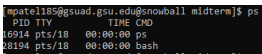
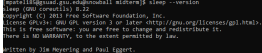
- For each command tryout at least one example provided in **Chapter 3** of the Unix textbook. Feel free to use your own example. Show the screenshot for each command's output. Present your output in a tabular form with column 1 as index (1,2,3..), second column as the command, third as the usage, fourth as the screenshot of the output. You can just show a small snapshot for the output -- we do not need the entire screen's image.

Index	Command	Usage	Screenshot
1	awk	awk '{print\$2}' myexamfile.txt	
2	diff	diff myexamfile.txt myexamfile_copy.txt	
3	egrep	egrep -i -c cricket myexamfile.txt	
4	fgrep	fgrep -h "cricket" myexamfile.txt	
5	grep	grep -c "Wicket" myexamfile.txt	
6	gzip	gzip myexamfile.txt	

7	gunzip	gunzip myexamfile.txt	<pre>[mpatel185@gsuad.gsu.edu@snowball midterm]\$ gunzip myexamfile.txt [mpatel185@gsuad.gsu.edu@snowball midterm]\$ ls myexamfile_copy.txt myexamfile.txt [mpatel185@gsuad.gsu.edu@snowball midterm]\$</pre>
8	od	od -c myexamfile.txt	<pre>[mpatel185@gsuad.gsu.edu@snowball midterm]\$ od -c myexamfile.txt 00000000 C r i c k e t i s a b a t 00000020 - a n d - b a l l g a m e p 00000040 l a y e d b e t w e e n t w 00000060 o t e a m s o f f e l e v e 00000080 n p l a y e r s a f 00000100 l e i d a t t h e c e n t 00000120 r e o f w h i c h i s a 00000140 2 2 - y a r d (2 0 - m e t 00000160 r e) p l i c h w i t h e a 00000180 w i c k e t a t e a c h</pre>
9	perl	perl -e "Hello!\n"	<pre>[mpatel185@gsuad.gsu.edu@snowball midterm]\$ perl -e 'print "Hello!\n" Hello!</pre>
10	sed	sed 's/two/2/g' myexamfile.txt	<p>cricket is a bat and ball game played between 2 teams of eleven players on a field at the centre of which is a 22 yard (20.1 metres) pitch with a wicket at each end, each comprising 3 stumps (batsmen on these stumps). The batting side scores runs by circling the ball (called the strike) with the bat (used running between the stumps), while the bowling and fielding side tries to prevent this (by preventing the ball from touching the stumps, and putting the ball to either side) and by taking one batter to the per cent. (out). Shots of cricket, the bats strike forward, down the ball (if the stumps are dislodged) the balls, and by the fielding side either catching the ball after it is hit by the bat and before it hits the ground, or hitting a stump with the ball before a batter has time to cross between the stumps. When the batter has been dismissed, the batting side and the same side (often, the game is interrupted by 2 minutes, called a 10 minute tea and water refresh to international matches: they communicate with 3 bat-field stumps who record the match's statistics, interrupted).</p>
11	sort	sort -r myexamfile.txt	<pre>9 Wicket 9 Footnotes 8 Striking batsman 8 See also 7 Popping crease 7 Culture 7.3 Influence on other sports 7.2 In the arts and popular culture 7.1 Influence on everyday life 6 Pitch 6 Competitions</pre>
12	time	time	<pre>[mpatel185@gsuad.gsu.edu@snowball ~]\$ time real 0m0.000s user 0m0.000s sys 0m0.000s</pre>
13	tr	echo "MY NAME IS MAHARSHI" tr "[A-Z]" "[a-z]"	<pre>[mpatel185@gsuad.gsu.edu@snowball midterm]\$ echo "MY NAME IS MAHARSHI" tr "[A-Z]" "[a-z]" my name is maharshi [mpatel185@gsuad.gsu.edu@snowball midterm]\$</pre>
14	uniq	uniq example.txt	<pre>[mpatel185@gsuad.gsu.edu@snowball midterm]\$ cat example.txt [mpatel185@gsuad.gsu.edu@snowball midterm]\$ [mpatel185@gsuad.gsu.edu@snowball midterm]\$ uniq example.txt my name is maharshi [mpatel185@gsuad.gsu.edu@snowball midterm]\$</pre>
15	whoami	whoami	<pre>[mpatel185@gsuad.gsu.edu@snowball midterm]\$ whoami mpatel185@gsuad.gsu.edu [mpatel185@gsuad.gsu.edu@snowball midterm]\$</pre>

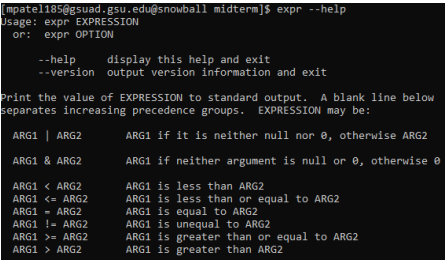
Part II : 30pts

- For each command tryout at least one example provided in **Chapter 4** of the Unix textbook. Feel free to use your own example. Show the screenshot for each command's output. Present your output in a tabular form with column 1 as index (1,2,3..), second column as the command, third as the usage, fourth as the screenshot of the output. You can just show a small snapshot for the output -- we do not need the entire screen's image.

Index	Command	Usage	Screenshot
1	chsh	chsh -l	
2	echo	echo Hello World	
3	kill	kill -l	
4	nohup	nohup --version	
5	ps	ps	
6	sleep	sleep --version	

Part III : 30pts

3. For each command tryout at least one example provided in **Chapter 5** of the Unix textbook. Feel free to use your own example. Show the screenshot for each command's output. Present your output in a tabular form with column 1 as index (1,2,3..), second column as the command, third as the usage, fourth as the screenshot of the output. You can just show a small snapshot for the output -- we do not need the entire screen's image.

Index	Command	Usage	Screenshot
1	expr	expr --help	
2	test	test -5 -eq -5 && echo "same"	